

P-0853

Smallest 125Watt, Military,
Tripple Output DC/DC Converter



Main Features:

- Miniature size - wide input range
- Input - output isolation
- For Airborne, Missile & Ground applications
- Meets MIL-STD-704A & D & MIL-STD-1275A (AT)
- High efficiency (typically 83%) - base plate cooling
- Fully protected for over-load short circuit, over-voltage & over-temperature
- Three isolated outputs: 5V, 15V, -15V
- Outputs can be modified upon customer request
- External Sync. signal
- EMI filter included

Typical Applications:

- Electronic Warfare (EW) Systems
- Radar Warning Receivers (RWR)
- Missiles
- Navigation Systems

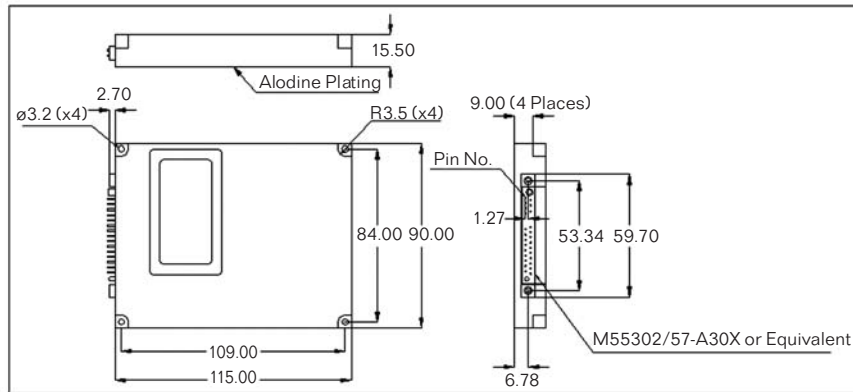
Ordering Information:

Model #	Voltage	Current	Power	R&N
900-0853-0000	5.1V	10A	51W	50mV
	+15V	4A	60W	50mV
	-15V	1A	15W	50mV

Product Specifications:

Input	Input voltage range 18-70VDC Protected for input transients - up to 100V for 100mSec Input injected ripple - up to 4V RMS Reverse Polarity Protection
Output	Output voltage / current - see table "Ordering Information" Line load & temperature regulation +/-1% Current limit on short circuit protection on each output - 110-130% of rated current Over-voltage protection on each output - latched shut down at 110% typical Isolation - Input/Output & Input/Case at 200VDC >100MΩ Output/Case at 100VDC > 100MΩ
Controls	ON/OFF signal - TTL POR - Protection Over Ride
Environment	Operating temperature -40°C - +90°C Base plate Storage temperature -55°C - +125°C Vibration per Mil-Std-810D Shock per Mil-Std-810D EMI-RFI per Mil-Std-461D Filter included inside CE-101, CE-102, CS-101, CS-114, CS-115, CS-116, RE-101 RE-102, RS-101, RS-103 MTBF 150,000 hours typical at 85°C base plate for GF Per Mil-Hdbk-217F notice-2
Mechanical	Size - 115mm x 90mm x 15.5mm Weight - 370 gram Cooling - Base plate Input / Output connector - M55302/57-A30 30 Pin Male

Outline Drawing



Connector Pin-Out:

Pin #	Function	Pin #	Function	Pin #	Function
1	+5.1V	11	RTN - Vin	21	+15V
2	+5.1V	12	RTN - Vin	22	+15V RTN
3	+5V	13	RTN - Vin	23	-15V RTN
4	5.1V RTN	14	+ Vin	24	-15V
5	5.1V RTN	15	+ Vin	25	ON/OFF
6	+15V	16	+5.1V	26	RTN + Vin
7	+15V RTN	17	+5.1V	27	RTN + Vin
8	-15V RTN	18	5.1V RTN	28	+ Vin
9	-15V	19	5.1V RTN	29	+ Vin
10	P.O.R.	20	5.1V RTN	30	SYNC